

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,902	03/11/2004	Sam Gat-Shang Chu	AUS920031079US1	7019
Kelly K. Kordzi	7590 11/30/2007		EXAM	INER
P.O. Box 50784	· ·		LE, THONG QUOC	
Dallas, TX 7520	)1		ART UNIT	PAPER NUMBER
			2827	
			MAIL DATE	DELIVERY MODE
			11/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/798,902	CHU ET AL.	
Office Action Summary	Examiner	Art Unit	
•	Thong Q. Le	2827	
The MAILING DATE of this communication app			
Period for Reply		•	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) Mo , cause the application to become	IICATION. a reply be timely filed  DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 12 N	ovember 2007.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowar	·	·	
closed in accordance with the practice under E	Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) 8-10,12,18-20 and 22 is/are pending 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) 8-10,18-20 is/are allowed. 6) ⊠ Claim(s) 12 and 22 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	eΓ.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	, , , , ,	•	
Applicant may not request that any objection to the	-		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority document</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No In received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		o(s)/Mail Date f Informal Patent Application 	

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#### **DETAILED ACTION**

- **1.** Amendment filed on 11/12/2007 has been entered.
- 2. Claims 18-10,12,18-20,22 are presented for examination.

### Response to Arguments

- 3. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 4. Applicant's arguments with respect to claims 8-10,12,18-20,22 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 12, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Aoki (U.S. Patent No. 5,150,326).

Regarding claim 12, Aoki disclose a register file (Figure 2) comprising:

- a plurality of register file cells (Figure 2, 10) coupled to a bit line (Figure 2, DR);
- a latch (Figure 3, 20) coupled to the bit line;
- a transmission gate circuit (Figure 3, N10) coupled between an output of the latch and the bit line; and

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an inverter (Figure 2, inverter of 13) coupled between the bit line and an input of the latch (inverter in 13 coupled between bit line DR and latch 20 of Figure 3).

Regarding claim 22, Aoki discloses a register file (Figure 1) comprising: a plurality of register file cells (Figure 1, 30) coupled to a bit line (DW); a latch coupled to the bit line (Figure 1, 31);

an inverter (Figure 1, 32) coupled between an output of the latch and the bit line (Figure 1); and

another inverter (Figure 1, 33, formed by a P-channel and an N-channel transistors) coupled between the bit line and an input of the latch.

7. Claims 12, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Henkels et al. (U.S. Patent No. 5,481,495).

Regarding claim 2, Henkels et al. disclose a register file (Figure 4) comprising a plurality of register file cells (41) coupled to a bit line (Figure 1, BIT); a latch (ABSTRACT, extra latches, Figure 6, 62) coupled to the bit line; a transmission gate circuit (Figure 4) coupled between an output of the latch and the bit line; and an inverter (Figure 4) coupled between the bit line and an input of the latch.

Claim 22, Henkels et al. disclose a register file (Figure 8) comprising a plurality of register file cells (Figure 8, 81) coupled to a bit line (80); a latch coupled to the bit line (85); an inverter (Q11) coupled between an output of the latch and the bit line; and another inverter (Q8) coupled between the bit line and an input of the latch (Figure 9).

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claim 22 is rejected under 35 U.S.C. 102(e) as being anticipated by Lu et al. (Pub. U.S. Patent No. 2002/0071305).

Regarding claim 22, Lu et al. disclose a register file (Figure 6) comprising: a plurality of register file cells (Figure 6, 610) coupled to a bit line (630); a latch (Figure 6, 620) coupled to the bit line;

an inverter (Figure 6, inverter in latch 1) coupled between an output of the latch and the bit line; and

another inverter (Figure 6, 625, inverter in latch 3) coupled between the bit line and an input of the latch.

9. Claim 22 is rejected under 35 U.S.C. 102(e) as being anticipated by Amangelo et al. (U.S. Patent No. 6,654,937).

Regarding claim 22, Amangelo et al. disclose a register file (Figure 2) comprising:

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a plurality of register file cells (Figure 2, cell ) coupled to a bit line (WR\_DATA); a latch (Column 4, lines 27-30) coupled to the bit line;

an inverter (Figure 1,Q1,Q2) coupled between an output of the latch and the bit line; and

another inverter (Figure 1, Q40, Q41) coupled between the bit line and an input of the latch.

## Allowable Subject Matter

10. Claims 8-10, 18-20 are allowed...

Claims 8-10, 18-20 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. The prior arts do not teach the claimed invention having a register file comprising: a first plurality of cells coupled to a first local bit line; a global bit line; a first tri-state inverter coupled between the first local bit line and the global bit line, the first tri-state inverter controlled by a first local select signal; a second plurality of cells coupled to a second local bit line; a second tri-state inverter coupled between the second local bit line and the global bit line, the second tri-state inverter controlled by a second local select signal; a latch with its input coupled to the global bit line; and a third tri-state inverter coupled between an output of the latch and the global bit line, the third tri-state inverter controlled by a hold signal.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarabian Amir can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thong Q. Le Primary Examiner Art Unit 2827